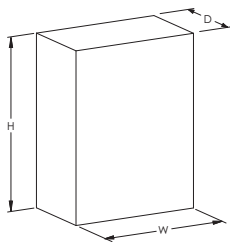


Surge Reduction Filter N-Series, Three Phase – SRF3800N



- High-performance protection incorporating Spark Gap and Transient Discriminating (TD) technologies
- High surge rating ideal for exposed critical service entrance applications
- Reduces let-through voltages and rate-of-voltage rise (dv/dt) and helps provide optimum protection for electronic equipment
- Extreme reliability and simplified design with direct connection from input to output
- Comprehensive front panel status and internal diagnostic LEDs



Part Number	SRF3800N
Nominal System Voltage (Un)	220/380 - 240/415 VAC
Distribution System	3Ph Y 4W+G
System Compatibility	TN-C TN-C-S TN-S TT
Rated Load Current (IL)	800 A
Frequency	50 – 60 Hz
Short Circuit Current Rating (SCCR)	43 kA
Heat Dissipation	260 W
Rate of Voltage Rise (dV/dt)	10 V/μs Max
Filtering	-40 dB @ 100 kHz
Input Connection	(2) 10 mm studs
Output Connection	(2) 10 mm studs
Protection Modes	All modes protected
Technology	Spark Gap In-line series low pass sine wave filter TD technology with thermal disconnect (50 kA 8/20us secondary stage)
Enclosure Material	Metal
Enclosure Rating	IP 32
Mounting	Wall mount
Status Indication	Front panel LED Internal diagnostic primary and secondary protection LEDs Change-over contact (Form C dry), 250 VAC/30 VDC/5 A, 4 kV isolation
Depth (D)	300 mm

Part Number	SRF3800N
Height (H)	1,200 mm
Width (W)	800 mm
Unit Weight	97.2 kg
Complies With	IEC® 61643-11 Class I, Class II ANSI®/IEEE® C62.41.2-2002 Cat A, Cat B, Cat C ANSI®/IEEE® C62.41.2-2002 Scenario II, Exposure 3, 100 kA 8/20 µs, 10 kA 10/350 µs
Certifications	CE RCM
Standard Packaging Quantity	1 pc
UPC	78285691544
EAN-13	0782856915447

AS1768 Ratings					
Part Number	SRF363N	SRF3125N	SRF3250N	SRF3500N	SRF3800N
Max Continuous Operating Voltage	310 VAC				
Maximum Surge Current, L-N	130 kA 8/20 µs 50 kA 10/350 µs				
Maximum Surge Current, N-PE	130 kA 8/20 µs 50 kA 10/350 µs				
Voltage Protection Level (L-N)	200 V @ 3 kA 8/20 µs 250 V @ 20 kA 8/20 µs	300 V @ 3 kA 8/20 µs 380 V @ 20 kA 8/20 µs	300 V @ 3 kA 8/20 µs 500 V @ 20 kA 8/20 µs	320 V @ 3 kA 8/20 µs 550 V @ 20 kA 8/20 µs	320 V @ 3 kA 8/20 µs 550 V @ 20 kA 8/20 µs

IEC 61643-11 Ratings					
Part Number	SRF363N	SRF3125N	SRF3250N	SRF3500N	SRF3800N
Max Continuous Operating Voltage (Uc)	255 VAC				
Temporary Overvoltage, L-N	442 VAC 2 hours				
Temporary Overvoltage, N-PE	1200 VAC 200 ms				
Impulse Current (Iimp)	10kA 10/350 µs				
Voltage Protection level (Up), L-N @ Iimp	450 V		500 V	550 V	
Nominal Discharge Current (In)	20kA 8/20 µs				
Voltage Protection level (Up), L-N @ In	450 V	500 V		650 V	
Voltage Drop	0.1 % Max				

IEC 61643-11 Annex A specifies Max Continuous Operating Voltage (Uc) as 255 VAC.

IEC 61643-11 test procedure limits maximum Impulse Current (Iimp) to 10kA due to internal product safety fusing.

IEC 61643-11 recommends a maximum preferred value for Nominal Discharge Current (In) of 20 kA.

IEC 61643-11 Temporary Overvoltage tests are passed in withstand mode.

Upstream overcurrent protection not exceeding Rated Load Current (IL) shown above must be installed ahead of the surge reduction filter.

ANSI is a registered trademark of American National Standards Institute. IEC is a registered trademark of the International Electrotechnical Commission. IEEE is a registered trademark of The Institute of Electrical and Electronics Engineers, Inc.

WARNING

Pentair products shall be installed and used only as indicated in Pentair's product instruction sheets and training materials. Instruction sheets are available at erico.pentair.com and from your Pentair customer service representative. Improper installation, misuse, misapplication or other failure to completely follow Pentair's instructions and warnings may cause product malfunction, property damage, serious bodily injury and death and/or void your warranty.

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